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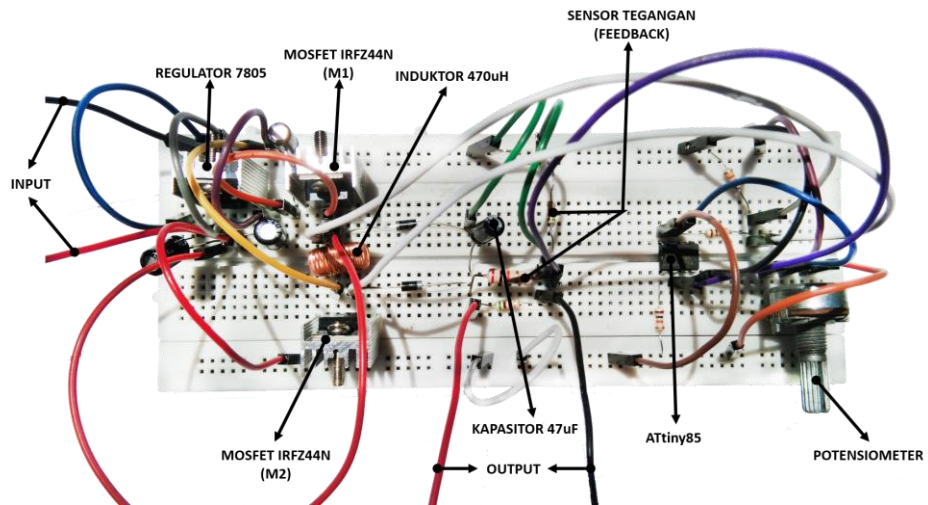
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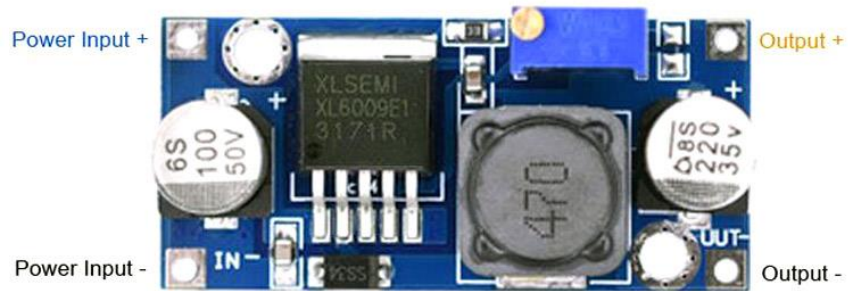
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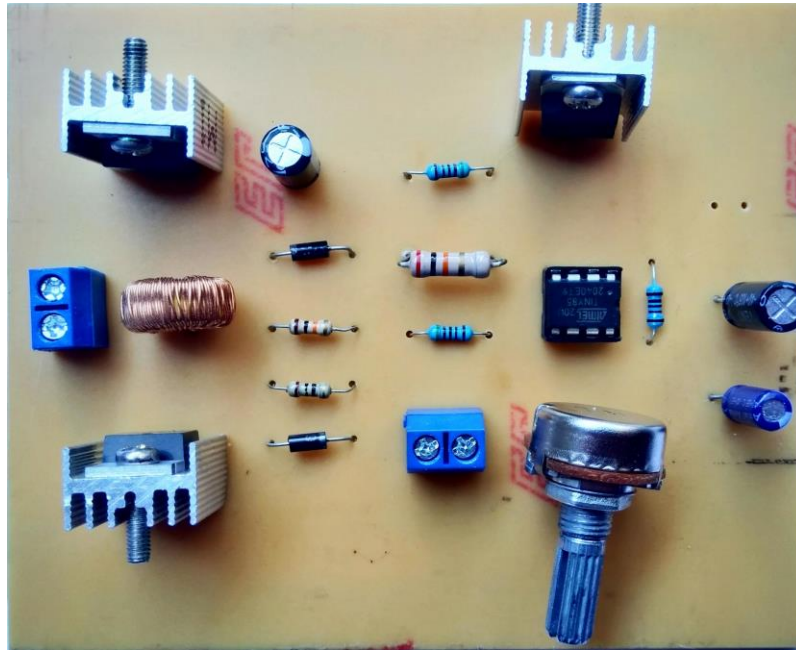
LAMPIRAN



Lampiran 1 Rangkaian *Breadboard Buck-Boost Converter*



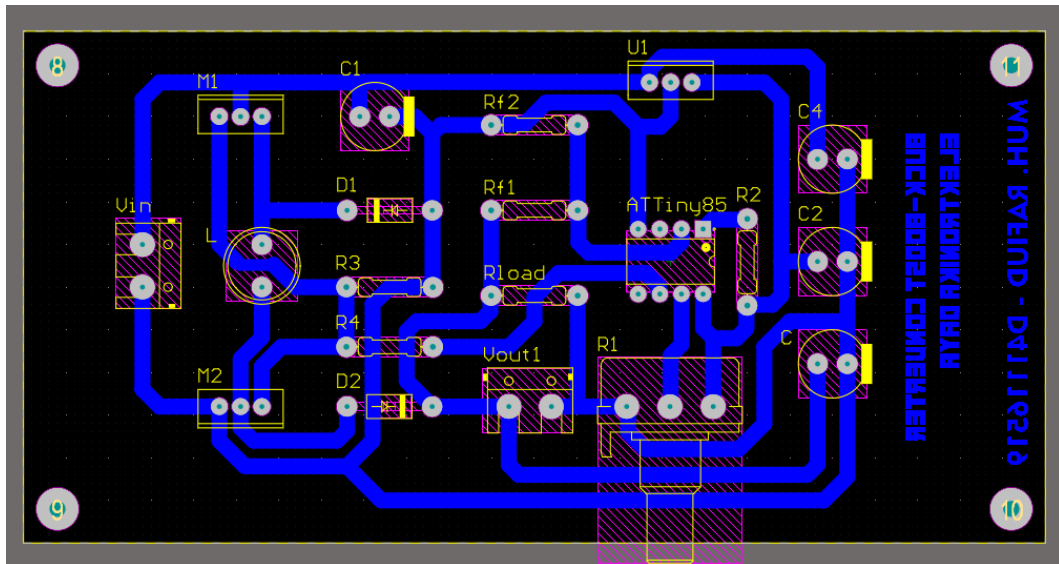
Lampiran 2 *Buck-Boost Converter* merek XX



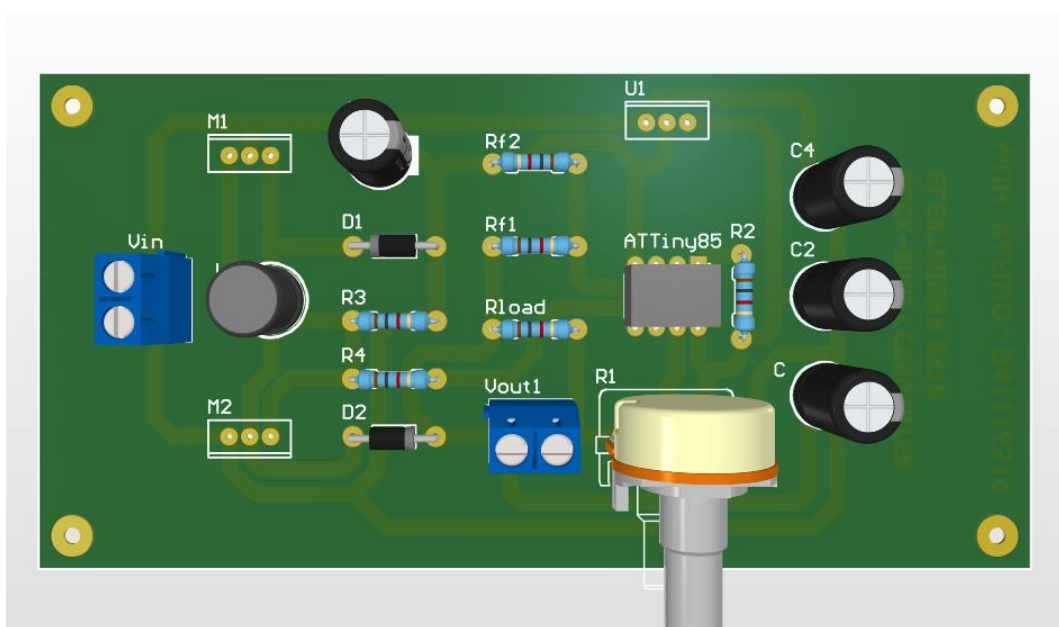
Lampiran 3 Prototipe *Buck-Boost Converter* Tampak Atas



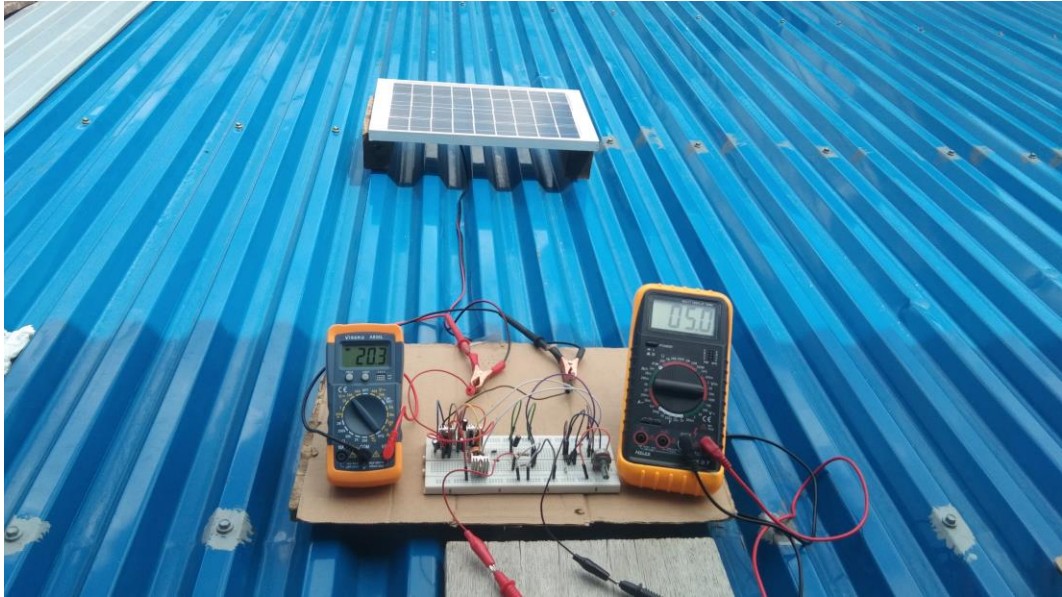
Lampiran 4 Prototipe *Buck-Boost Converter* Tampak Bawah



Lampiran 5 Tampilan 2D PCB Layout Buck-Boost Converter



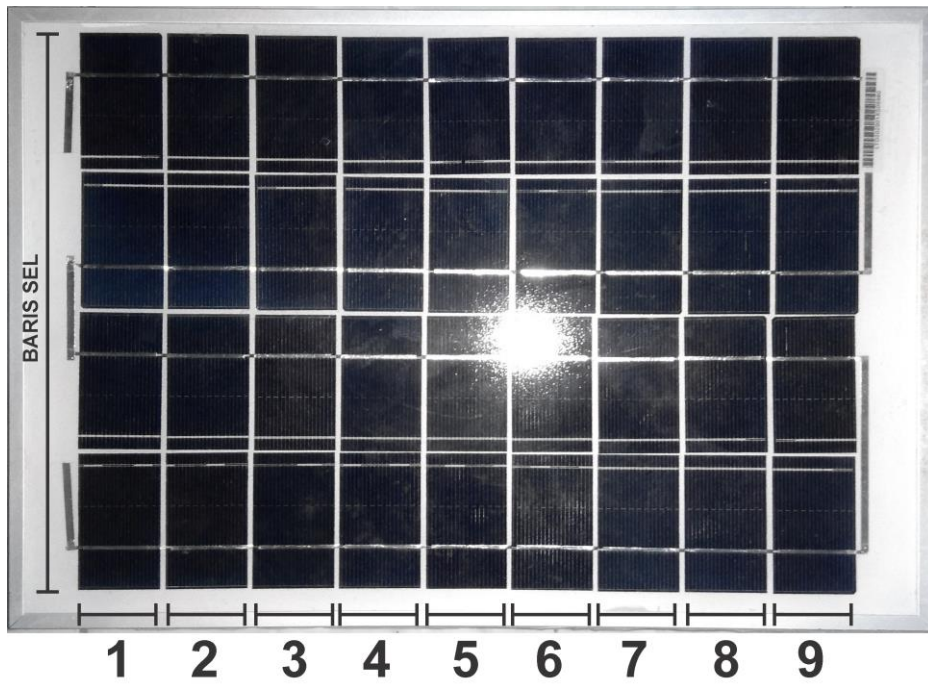
Lampiran 6 Tampilan 3D PCB Layout Buck-Boost Converter



Lampiran 7 Tegangan *Output* Prototipe *Buck-Boost Converter* pada Mode *Buck*



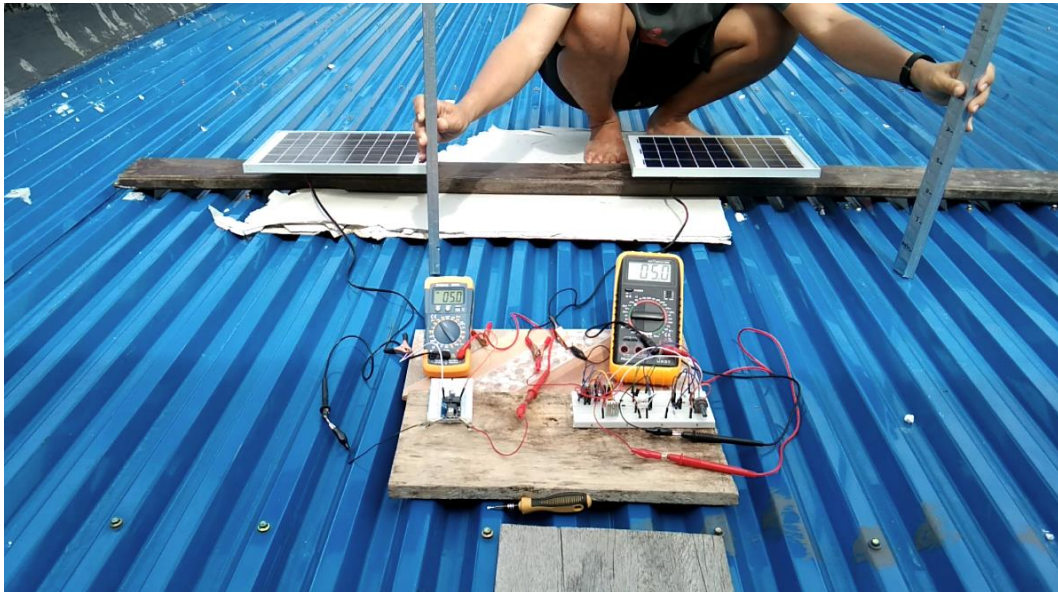
Lampiran 8 Tegangan *Output* Prototipe *Buck-Boost Converter* pada Mode *Boost*



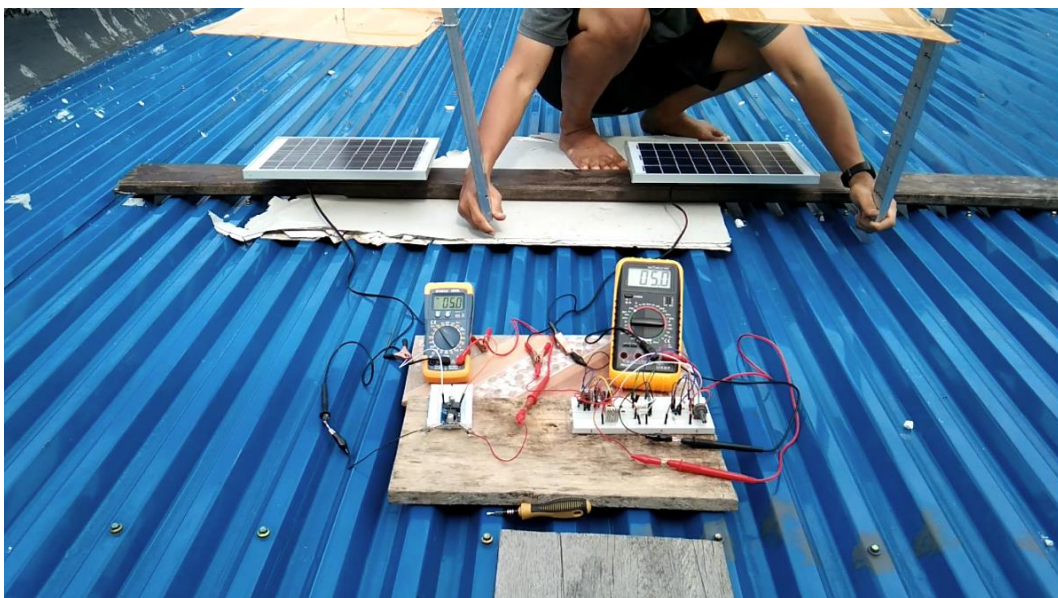
Lampiran 9 Panel Surya



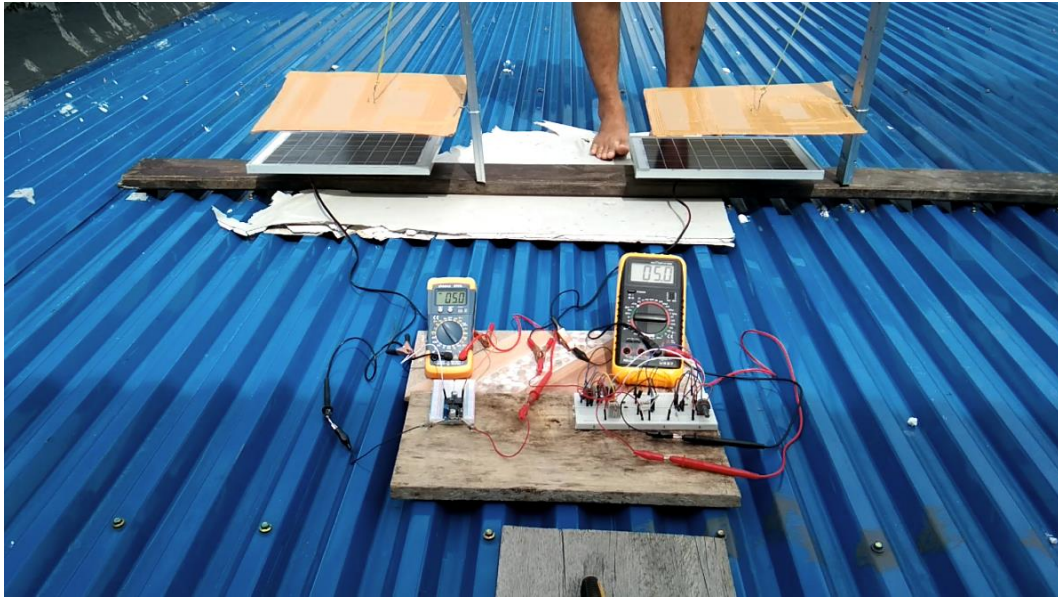
Lampiran 10 Penghalang untuk Panel Surya



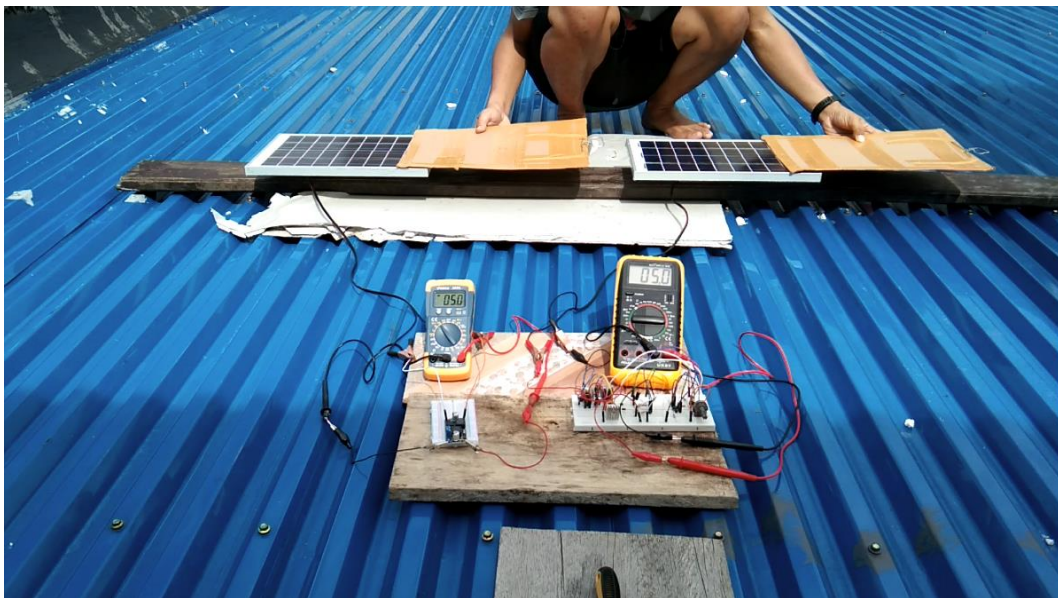
Lampiran 11 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup 9 Baris Sel dan Ketinggian Penghalang 50 cm



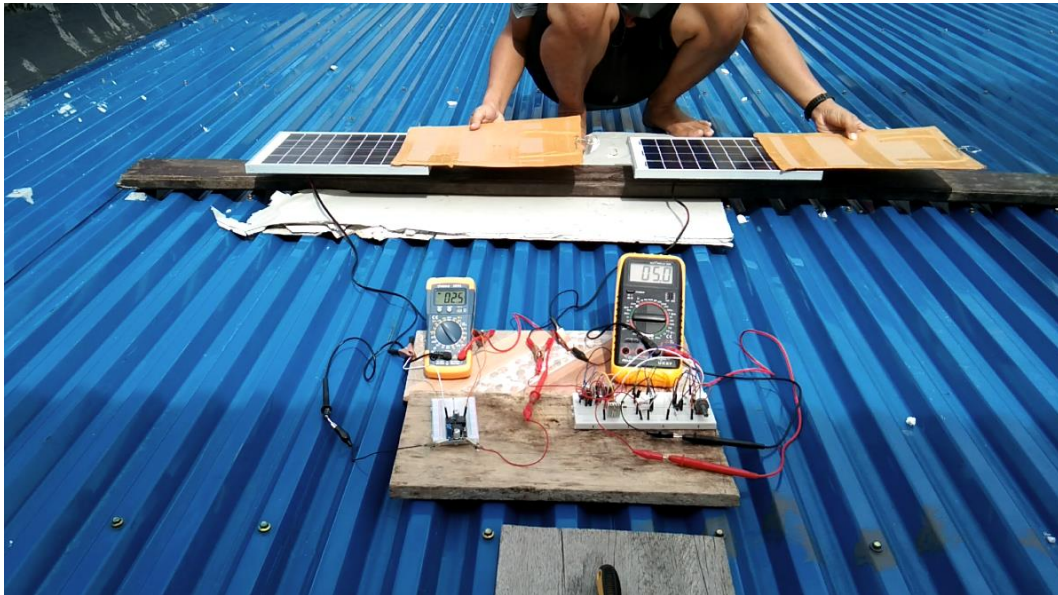
Lampiran 12 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup 9 Baris Sel dan Ketinggian Penghalang 30 cm



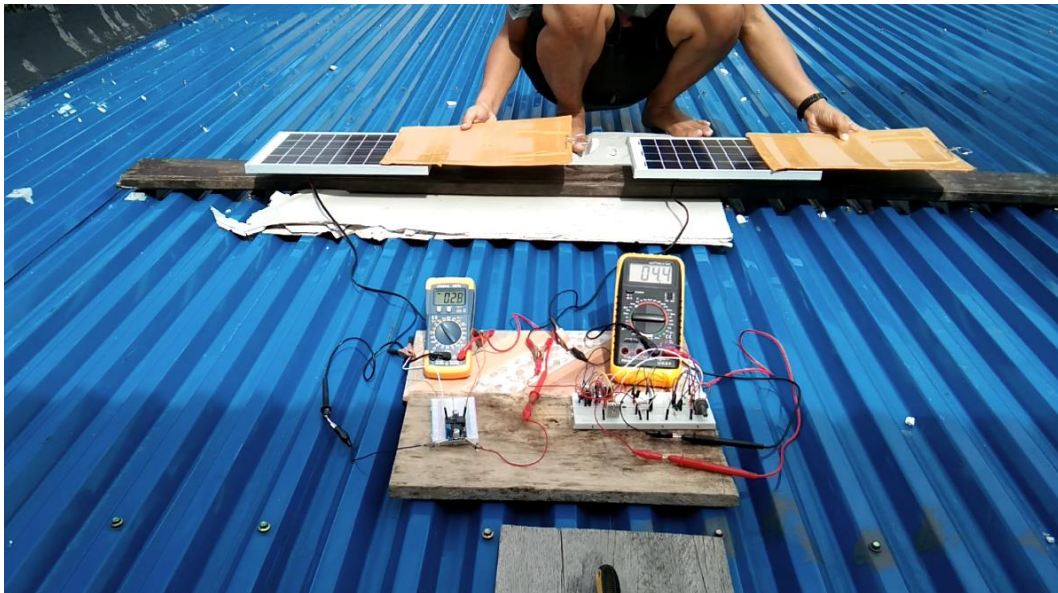
Lampiran 13 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup 9 Baris Sel dan Ketinggian Penghalang 10 cm



Lampiran 14 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup secara langsung 1 Baris Sel



Lampiran 15 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup secara langsung 1,5 Baris Sel



Lampiran 16 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Menutup secara langsung 2 Baris Sel



Lampiran 17 Pengujian Rancangan *Buck-Boost Converter* dan *Buck-Boost Converter* Pasaran dengan Durasi 10 Menit

```

#define F_CPU 8000000

const int pwm = 1;

const int potinput = A1;

const int feedbackinput = A3;

int potinputval;

int feedbackinputval;

int pwmval;

void setup() {

    TCCR0A = 2 << COM0A0 | 2 << COM0B0 | 3 << WGM00;

    GTCCR = 1 << PWM1B | 2 << COM1B0;

    pinMode(pwm, OUTPUT);

    pinMode(potinput, INPUT);

    pinMode(feedbackinput, INPUT);

    digitalWrite(pwm, LOW);

    pwmval = 0;

}

void loop() {

    potinputval = analogRead(potinput);

    feedbackinputval = analogRead(feedbackinput);

    while (feedbackinputval < potinputval){

        if (pwmval > 120){

            analogWrite(pwm, pwmval);

```